Packaging Polymers & Productions
with Dr. Young Kim, Packaging Polymer Specialist

Overview: Plastics are crucial components in the packaging world. The majority of consumer products are protected by many plastic polymers. This 3-credit course provides students with fundamental backgrounds info on the views of material properties, functions, manufacturing processes, and their applications for products. The summer session is designed for students who need to take this course remotely due to their co-op/internship or coursework schedule adjustment.

Goals of the course: Having successfully completed this course, students will be able to:

- Describe the structure and properties of synthetic, natural, and sustainable plastic packaging polymers.
- Explain how natural biopolymers and sustainable bioplastics can be used as alternatives in the production of packaging articles and their environmental impact.
- Design overall packaging systems including material types, fabrication techniques, and quality control for rigid and flexible packaging mass production.

Online Lecture and communication:

- Daily video clip (30-40 min. length) will be uploaded.
- Weekly small group video conferences with Dr. Kim through Zoom (attendance required).
- Chapter-by-chapter open book exams (5 times per semester).
- Daily and/or weekly assignments will be regularly given.

Who are encouraged to take this course?

- Anyone who finished SBIO 2104 or has equivalent knowledge wants to graduate early.
- Transfer students who recently joined the packaging program and need a coursework schedule adjustment.
- Students who are under industrial coop/internship or are planning to take the fall semester off for industrial experience.

Requirements:

- Good internet connection.
- Microphone and video camera.
- Willingness to learn about the big plastic packaging world and job opportunities!

Work at your own pace and time with flexible times for zoom-based conversations with professors and classmates!